

ABSTRACT OF THE DISCLOSURE

An apparatus for calculating satellite acquisition information for controlling a position determination entity (PDE) to determine a position of the MS in a network assisted GPS system comprising an MS containing a GPS receiver and the PDE containing
5 a reference station GPS receiver, the apparatus comprising a satellite data collector for collecting satellite orbital information transferred from a plurality of satellites to the reference station GPS receiver; a pseudo range calculator for receiving the satellites' position coordinates calculated based on the satellite orbital information and calculating
10 a pseudo range between the MS and a satellite observed by the MS using the received information; a pseudo velocity calculator for receiving satellites' velocity information calculated based on the satellite orbital information; and a satellite acquisition information calculator for calculating a code phase using the pseudo range, calculating a Doppler shift using the pseudo velocity, and calculating the satellite acquisition information containing
15 the code phase and the Doppler shift.